Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims

1. ~~34.~~ (currently amended) An apparatus for creating a structure comprising a plurality of cells of cured resinous material, the apparatus comprising:

a plurality of resin flow apertures arranged to permit cells formed at one aperture to contact cells formed at directly adjacent apertures, wherein a position of the resin flow aperture is alterable; ~~and~~

a resin flow control member arranged in each resin flow aperture and operable to control a flow of resin from the resin flow apertures, wherein the resin flow control member comprises a shutter valve;

a liquid injection port arranged in each resin flow aperture for injecting liquid into a cell of uncured resin flowing out of the resin flow aperture to inflate the cell;

a liquid flow control member operable to control a flow of liquid through the port;

wherein the liquid comprises a gas or a fluid;

a forming plate that the resin flow apertures are formed through;

at least one cell-retaining member for retaining the cells after curing of the resinous material; and

a source of energy for curing the uncured resin, wherein the energy source comprises at least one of a source of ultraviolet radiation, a heat source, a source of visible light, an electron beam source, and a source of microwave radiation,

wherein the apparatus-formed cells have a substantially uniform size.

35 – 44 (canceled)

45. (new) A method of forming a structure, the method comprising:

feeding an uncured resin through a plurality of resin flow apertures in a plate, thereby forming a plurality of individual cells each comprising a mass of uncured resin;

injecting fluid into the masses of uncured resin to inflate the cells of resin, wherein the fluid is a liquid or a gas;

contacting some of the cells with others;

solidifying the liquid after injecting it into the cells;

exposing the resin to at least one of ultraviolet radiation, heat, visible light, an electron beam, and microwave radiation, thereby curing the resin;

after the step of curing the resin, evacuating the fluid from the interior of the cells until the interior of the cells has a gas pressure substantially similar to an ambient pressure external to the cells;

wherein all of the cells are formed of a similar size;

sequentially forming the cells in a plurality of planes, wherein the number of cells formed in each plane differs;

joining cells in each plane to cells in an adjacent previously formed plane of cells;

wherein cells in a plurality of adjacent planes are arranged in different positions orthogonal to the planes or wherein cells in a plurality of adjacent planes are aligned in a direction perpendicular to the planes;

after the step of evacuating the fluid utilized in inflating the cells, injecting another fluid into the cells until the interior of the cells has a gas pressure substantially similar to an ambient pressure external to the cells, wherein the other fluid is a gas or a liquid; and

solidifying the other liquid after injecting into the inflated cell.